

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,837	11/12/2003	Axel Pannwitz	DS03-015 6932 EXAMINER	
75	90 07/13/2005			
STEPHEN B. ACKERMAN 28 DAVIS AVENUE			PATEL, RAJNIKANT B	
POUGHKEEPSIE, NY 12603			ART UNIT	PAPER NUMBER
	,		2838	

DATE MAILED: 07/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/706,837	PANNWITZ, AXEL			
		Examiner	Art Unit			
		Rajnikant B. Patel	2838			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)[🗆	Responsive to communication(s) filed on <u>09 M</u>	lay 2005.				
·	This action is FINAL. 2b)⊠ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-13 and 16-23 is/are rejected. 7) Claim(s) 14 and 15 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Applicati	on Papers					
9)☐ The specification is objected to by the Examiner.						
10)[The drawing(s) filed on is/are: a) \square acc					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
2) Notice 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summa Paper No(s)/Mai 5) Notice of Informa 6) Other:				

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-23 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-13 and 16-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's prior figure 2, and Lambropoulos et al. (U.S. Patent # 4,611,154).

Applicant's prior art disclose the claimed invention a low drop-out voltage regulator figure 2, including a pass device (figure 2, item 201), a bias driving stage (figure 2, item 203), a filter capacitor's figure 2, item 213), a parallel impedance, a serial impedance transistor (figure 2, item 203), parallel arranged transistors (figure 2, item 201 and 203), However applicant's prior art does not disclose the utilization of the technique for

Art Unit: 2838

impedance connected between gate of pass device and bias driving stage.

Lambropoulos et al. teaches the utilization of the technique for impedance being connected on one side of the biased driving stage and on the other side to the gate of a pass of the LDO. Lambropoulos et al. teaches the utilization of the similar technique for impedance being connected on one side of the biased driving stage and on the other side to the gate of a transistor Q1 (figure 4, item 44 and column 8, 50-60). It would have been obvious one having an ordinary skill in the art at the time invention was made to modify Applicant's prior art by utilizing a technique taught by Lambropoulos et al. for the purpose of increasing the stability of voltage regulator.

Allowable Subject Matter

- 3. Claims 14-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rajnikant B. Patel whose telephone number is 571-272-2082 The examiner can normally be reached on 6.30-5.00; m-f.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on 571-272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/706,837

Art Unit: 2838

Page 4

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rajnikant B Patel Primary Examiner Art Unit 2838
